

O I P E
JAN 30 2003
U.S. PATENT & TRADEMARK OFFICE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Title: SUPEROX PROCESS FOR
INCREASING PROCESSING
CAPACITY OF SULFUR RECOVERY
FACILITIES

Inventor(s): Thomas King Tong Chow
Assignee(s): Parsons Energy & Chemicals
Group, Inc.

Serial No.: 09/596892

Filing Date: 6/19/2000

Group No.: 1754

Examiner: Timothy Vanoy

Attorney Docket No.: 9905.1P7

DECLARATION

I, Peter Wilkes, declare that:

1. I am an officer of Parsons Energy & Chemicals Group, Inc., owner of the above application and US Patent 6,214,311 B1 (Inventor: Kam-Wang Vincent Kwong; issued 1/2/00, filed 9/21/98 as Serial No. 09/157467).

2. I am an officer of Parsons Corporation. I am authorized by Parsons Energy & Chemicals Group, Inc. and Parsons Corporation to make the statements in this Declaration.

3. At the application date of US Patent 6,214,311 B1, Parsons Corporation was the assignee of the application. Attached to this Declaration is a true copy of that Assignment.

4. At the application date of the above application, Parsons Energy & Chemicals Group, Inc. was the assignee of the application. Attached to this Declaration is a true copy of that Assignment.

5. Under the laws of its state of incorporation, Texas, Parsons Corporation wholly owns Parsons Energy & Chemicals Group, Inc. and has, before the filing date of the above application, transferred and assigned to it the entire right, title and interest to US Patent 6,214,311 B1. Therefore, US Patent 6,214,311 B1 and the present application Serial No. 09/596892 are entirely and commonly owned by Parsons Energy & Chemicals Group, Inc.

4. All statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true. All the above statements were made with knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under §1001 of Title 18 the United States Code, and such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

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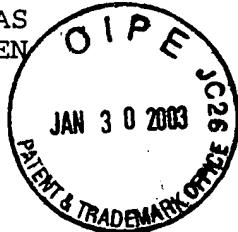
Name of Declarant(s):	Signature of Declarant:	Date: OFFICE OF PETITIONS
Peter Wilkes, VP and authorized officer of Parsons Corporation and Parsons Energy & Chemicals Group, Inc.		1/3/03



UNITED STATES DEPARTMENT OF COMMERCE
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FEBRUARY 21, 2001

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THE LAW OFFICE OF DAVID T. BRACKEN
DAVID T. BRACKEN
4839 BOND AVE.
ORANGE CA 92869



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UNITED STATES PATENT AND TRADEMARK OFFICE
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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 12/12/2000

REEL/FRAME: 011327/0529
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNEE'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNEE:
CHOW, THOMAS KING TONG

DOC DATE: 06/10/2000

ASSIGNEE:
PARSONS ENERGY & CHEMICALS GROUP,
INC.
100 W. WALNUT STREET
PASADENA, CALIFORNIA 91124

SERIAL NUMBER: 09596892
PATENT NUMBER:

FILING DATE: 06/19/2000
ISSUE DATE:

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Thomas King Tong Chow

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other _____

Execution Date: 6/19/00

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: 6/19/00

A. Patent Application No.(s)

09/596892

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: David T. Bracken

Internal Address: _____

The Law Office of David T. Bracken

4839 Bond Ave.

Street Address: _____

City: Orange

State: CA

ZIP: 92869

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41).....\$ Enclosed Authorized to be charged to deposit account

8. Deposit account number:

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

David T. Bracken

Name of Person Signing

David T. Bracken

Signature

12/3/2000

Date

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Title: SUPEROX PROCESS FOR
INCREASING PROCESSING CAPACITY
OF SULFUR RECOVERY FACILITIES

Inventor(s): Thomas King Tong Chow
Assignee(s): Parsons Corporation
Serial No.:
Filing Date:
Attorney Docket No.: 9905.1P7

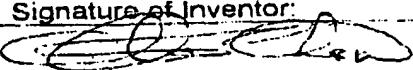
ASSIGNMENT

As above-named inventor(s), I (we) hereby declare that:
1. My residence and citizenship are as stated by my name.

Full Name of Inventor:	Address: City, State, Country
#1 Thomas King Tong Chow	18591 Mariposa Drive Villa Park, CA 92861

I (we) further declare that:

2. I own the entire or _____ we jointly own the entire right, title and interest in or _____ I (we) own an undivided _____ % of the right, title and interest in the concept and patent application identified above.
3. Parsons Energy & Chemicals Group, Inc., a California corporation with a place of business at 100 W. Walnut Street, Pasadena, CA ("Assignee"), is desirous of acquiring the all right, title and interest in, to and under the above concept and patent application from the above owner(s) ("Assignor").
4. For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby sells, assigns, transfers and sets over to Assignee the full and exclusive right, title and interest to the above concept and patent application, together with the inventions described therein, including any divisions, continuations, or continuations-in-part thereof, and any and all reissues of patents issued thereon, and the right to file patent applications for the inventions in other countries foreign to the United States, the same to be held and enjoyed by Assignee, its successors, assigns or other legal representatives, to the end of the terms for which such patents are granted or reissued, as fully and entirely as the same would have been held and enjoyed by Assignor had this assignment not been made.

Full Name of Inventor:	Signature of Inventor:	Date:
#1 Thomas King Tong Chow		6/10/00

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10-06-1998

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1-91-92

9-21-98

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Patent and Trademark Office

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1. Name of conveying party(ies):
Kam-Wang Vincent Kwong

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Assignment | <input type="checkbox"/> Merger |
| <input type="checkbox"/> Security Agreement | <input type="checkbox"/> Change of Name |
| <input type="checkbox"/> Other _____ | |

Execution Date: _____

2. Name and address of receiving party(ies):

Name: **Parsons Corp.**

Internal Address: _____

Street Address: **100 W. Walnut Street**City: **Pasadena** State: **CA** ZIP: **91124**Additional name(s) & address(es) attached? Yes No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: **9/19/98**

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: **David T. Bracken**

Internal Address: _____

The Law Office of David T. Bracken**4839 Bond Ave.**

09/28/1998 INVOICE NO. 00000042 09157467

02 FC 581

40.00 UP

City: **Orange**State: **CA** ZIP: **92869**6. Total number of applications and patents involved: **1**7. Total fee (37 CFR 3.41).....\$ **40.00** Enclosed Authorized to be charged to deposit account

8. Deposit account number:

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

David T. Bracken

Name of Person Signing

David T. Bracken

Signature

Total number of pages comprising cover sheet:

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Title: Process for Direct Reduction of Sulfur Compounds to Elemental Sulfur in Combination with the Claus Process
Inventor(s): Kam-Wang Vincent Kwong
Assignee(s): Parsons ~~Process Group, Inc.~~ Corp.
Serial / Application No.:
Filing Date:
Docket No.: 1997.07_1

ASSIGNMENT

ASSISTANT COMMISSIONER FOR PATENTS
Washington, DC 20231

As above-named inventor(s), I (we) hereby declare that:
1. My residence and citizenship are as stated by my name.

Full Name of Inventor:	Residence (City, State, Country):	Citizenship:
Kam-Wang Vincent Kwong	Pasadena, CA USA	USA

I (we) further declare that:

2. I (we) own either a full or joint right, title and interest in the concept and patent application identified above. *Corporation*
3. Parsons ~~Process Group, Inc.~~, a California corporation with a place of business at 100 W. Walnut Street, Pasadena, California ("Assignee"), is desirous of acquiring the all right, title and interest in, to and under the above concept and patent application from the above owner(s) ("Assignor").
4. For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby sells, assigns, transfers and sets over to Assignee the full and exclusive right, title and interest to the above concept and patent application, together with the inventions described therein, including any divisions, continuations, or continuations-in-part thereof, and any and all reissues of patents issued thereon, and the right to file patent applications for the inventions in other countries foreign to the United States, the same to be held and enjoyed by Assignee, its successors, assigns or other legal representatives, to the end of the terms for which such patents are granted or reissued, as fully and entirely as the same would have been held and enjoyed by Assignor had this assignment not been made.

Full Name of Inventor:	Signature of Inventor:	Date:
Kam-Wang Vincent Kwong	<i>Kam-Wang Vincent Kwong</i>	September 19, 1998



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Title: SUPEROX PROCESS FOR
INCREASING PROCESSING CAPACITY
OF SULFUR RECOVERY FACILITIES
Inventor(s): Thomas King Tong Chow
Assignee: Parsons Parsons Energy &
Chemicals Group, Inc.
Serial No.: 09/596892
Filing Date: 6/19/2000
Group No.:
Examiner:
Attorney Docket No.: 9905.1P7

DECLARATION

As above-named inventor(s), I (we) hereby declare that:

1. My residence and citizenship are as stated by my name.

Full Name of Inventor:		Citizenship:
#1 Thomas King Tong Chow	Address #1: 18591 Mariposa Ave., Villa Park, CA USA	USA

I (we) further declare that:

2. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention identified above and is attached hereto.

3. I have reviewed and understood the contents of the above identified specification, claims, drawings and abstract and acknowledge my duty to disclose information which is material to the examination of this application in accordance with Title 37 Code of Federal Regulations §1.56.

4. All statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true. All the above statements were made with knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under §1001 of Title 18 of the United States Code, and such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

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Full Name of Inventor:	Signature of Inventor:	Date:
#1 Thomas King Tong Chow		6/10/00

Stream	301	302	306	307	101	102	103A	105	201	202	203A	205
Description	Acid Gas	Oxygen	Gas to Train 1	Gas to Train 2	Acid Gas	Air	Oxygen	WHB Effluent	Acid Gas	Air	Oxygen	WHB Effluent
Composition												
H2S	807.32		185.18	185.18	96.17			171.49	96.17			171.49
SO2			14.20	14.20				86.01				86.01
H2O	148.52		368.88	368.88	8.77	10.78		488.57	6.77	10.78		488.57
O2		329.46				73.19	52.33			73.19	52.33	
N2			24.87	24.87		275.35		300.01		275.35		300.01
S2			2.10	2.10				0.68				0.68
S4			0.12	0.12				0.05				0.05
S6			27.05	27.05				25.90				25.90
S8			7.12	7.12				10.64				10.64
CO2	20.92		13.50	13.50	2.84			18.54	2.84			18.54
H2			30.77	30.77				18.58				18.58
CO			2.03	2.03				1.02				1.02
CO3			0.36	0.36				0.24				0.24
CS2												
NH3	98.68				1.07				1.07			
Hydrocarbon	10.88											
TOTAL, lbmol/hr	1086.30	329.46	653.93	653.93	106.85	359.32	52.33	1121.73	106.85	359.32	52.33	1121.73
Mass Flow, lb/hr	32986	10543	21755	21755	3542	10250	1675	37220	3542	10250	1675	37220
Molecular Weight	30.35	32.00	33.27	33.27	33.15	28.53	32.00	33.18	33.15	28.53	32.00	33.18
Temperature, °F	137	200	750	750	120	200	90	850	120	200	90	650
Pressure psia	26.7	26.7	23.5	23.5	26.7	26.7	23.0	23.0	26.7	26.7	26.7	23.0

John 1/9/03

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